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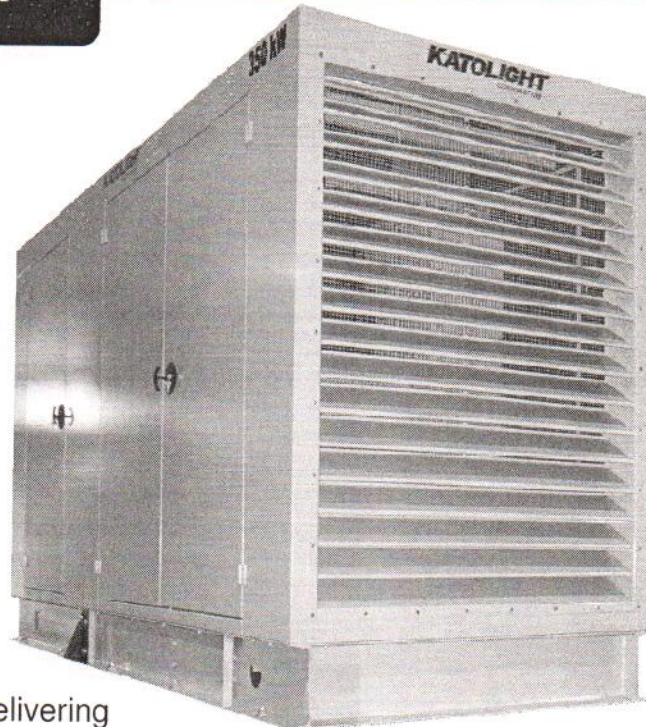


SP DIESEL

350 KWT3 @ 60 Hz.
SP Series

SD350-X6T3

Katolight generators are available in a variety of sizes to meet the energy needs of the smallest homes to the largest facilities. You can rely on the environmentally friendly, clean, quiet stand-by power of our generators in emergency situations, day or night — and that means security and peace of mind for you.



Our generators are specially designed to ensure the lowest possible harmonic distortion, making them ideal for delivering quality power to hospitals, retail facilities, offices and many other locations.

ENGINE FEATURES

- ◆ Radiator Cooled
- ◆ Starter and alternator
- ◆ Oil pump and filter
- ◆ Air cleaner
- ◆ Electric Isochronous governor

GENERATOR FEATURES

- ◆ Brushless single bearing
- ◆ Automatic voltage regulator:
 - Over-excitation protection
 - Under-frequency compensation
- ◆ Available voltages:
 - 120/240 1ϕ 12 wire
 - 120/208 3ϕ 12 wire
 - 120/240 3ϕ 12 wire
 - 277/480 3ϕ 12 wire
 - 346/600 3ϕ 4 wire

DIGITAL CONTROLLER FEATURES

- ◆ Microprocessor based, digital read-out control system
- ◆ Unit-mounted
- ◆ Engine vitals monitored by LCD display:
 - Oil pressure
 - Running time
 - Engine temperature
 - Safety shutdowns:
 - HWT, OC, OS, OP, LWL
 - Battery voltage
 - Generator AC voltage
 - AC amperage
 - Frequency
- ◆ Continuous displays:
 - Oil pressure
 - Engine temperature
 - Battery voltage
 - Low fuel level

ADDITIONAL FEATURES

- ◆ Oil drain extension
- ◆ Flexible fuel connector
- ◆ Battery: 24 volt with rack
- ◆ Battery charger: 24 volt 6 amp
- ◆ Battery cables
- ◆ Vibration isolation pads
- ◆ Jacket water heater: -20 °F
- ◆ Mainline circuit breaker
- ◆ Muffler
- ◆ UL2200 Listed

OPTIONAL FEATURES

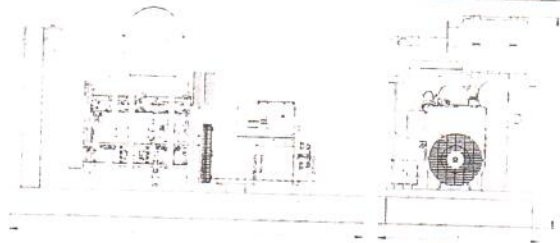
- ◆ Sub-base fuel tank with electrical stub-up area
- ◆ Weatherproof or Crystal Quiet enclosure
- ◆ PMG
- ◆ Sound attenuation
 - 1½" foam
 - Sound scoops
- ◆ Remote annunciator

SD350-X6T3_8-07

350kW T3 Diesel Gen-Set**KATOLIGHT[®]**
CORPORATION

ENGINE TECHNICAL DATA		350 kW
Model:		Series 60 (6063HV35)
Type:		4-Cycle
Aspiration:		Turbocharged - Air to Air
Cylinder Arrangement:		6-Inline
Displacement : cu. in. (lit)		855 (14.0)
Bore x Stroke: in. (cm)		5.24 (13.3) x 6.61 (16.8)
Compression Ratio:		16.0:1
Rated RPM:		1800
BMEP: psi (kPa)		283 (1.951)
Maximum Power @ Rated RPM: hp (kW)		550 (410)
INSTALLATION DATA OPU = Open Power Unit EPU = Enclosed Power Unit		
Dimensions & Weights		
	OPU	EPU
Length: in. (cm)	150 (381)	150 (381)
Width: in. (cm)	68 (173)	68 (173)
Height : in. (cm)	90.5 (230)	106.5 (271)
Height with tank: in. (cm)	118.5 (301)	134.5 (342)
Weight (less tank): lb (kg)	7,284 (3,304)	8,741 (3,965)
Liquid Capacity		
Total Oil System: Gal (lit)		9.5 (36)
Engine Jacket Water: Gal (lit)		6.0 (23)
System Coolant Capacity: Gal (lit)		42 (159)
Electrical System		
Electric Volts DC:		24V
Cold Cranking Amps Under 0°F (-17.8°C):		950
Exhaust System		
Gas Temp (Stack): °F (°C)		963 (517)
Gas Volume @ Stack Temp: cfm (m ³ /min)		3,090 (88)
Maximum Allowable Back Pressure: in H ₂ O (kPa)		40.8 (10.2)
Cooling System		
Ambient Capacity of Radiator: °F (°C)		122 (50)
Water Pump Capacity: gpm (lit/min)		96 (363)
Heat Rejection to Coolant: BTUM (kW)		7,450 (131)
Heat Rejection to Air to Air: BTUM (kW)		4,900 (86)
Air Requirements		
Aspirating: cfm (m ³ /min)		1,160 (32.8)
Air Flow Requirements for Rad. Cooled Unit: cfm (m ³ /min)		19,254 (545)
Fuel Consumption: Gal/Hr (Lit/Hr)		
At 100% of Power Rating:		25.7 (97.3)
At 75% of Power Rating:		20.1 (76.1)
At 50% of Power Rating:		13.6 (51.4)
Sound Level Data at		
	Full Load	No Load
23 ft. (7m) Enclosed with 1.5" foam: (dBA)	85	82
23 ft. (7m) Enclosed, 1.5" foam & scoops: (dBA)	C/F	C/F
Derate:		
Altitude :		1% per 1,000 ft (305 m) above 600 ft (183 m)
Temperature:		1% per 10°F (5.5°C) above 77°F (25°C)

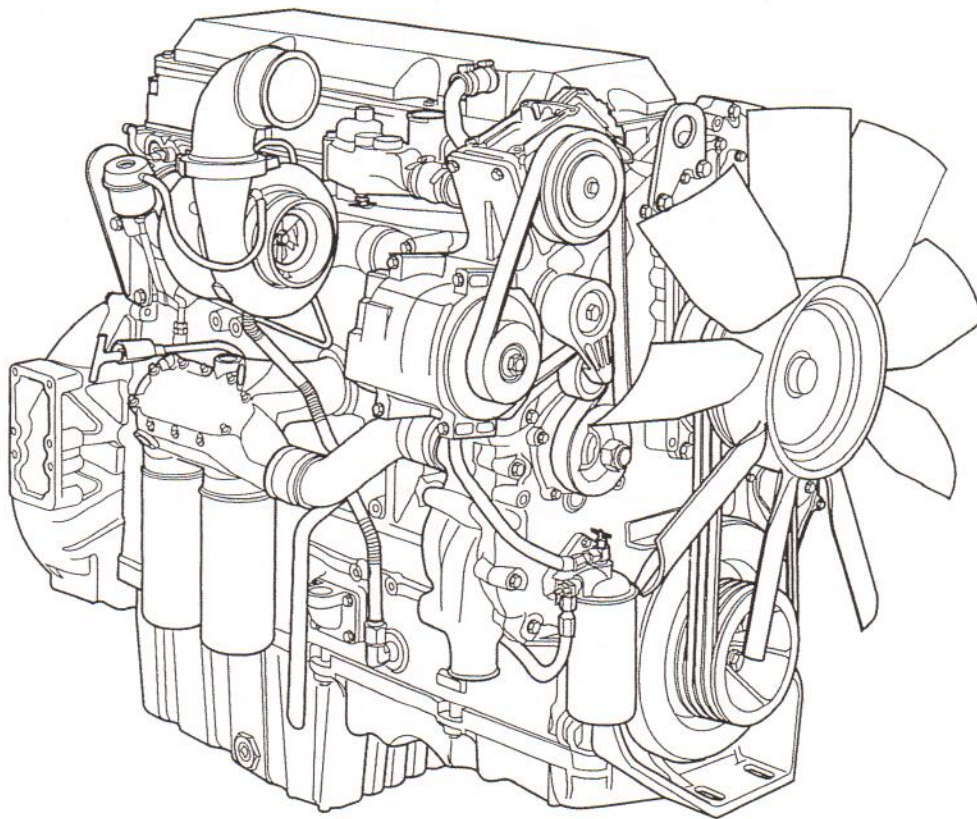
DISTRIBUTED BY:



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DETROIT DIESEL

Series 60



Engine Operator's Guide

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CALIFORNIA

Proposition 65 Warning

Diesel Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

To the Operator

This guide contains instructions on the safe operation and preventive maintenance of your Detroit Diesel engine. Maintenance instructions cover routine engine services such as lube oil and filter changes in enough detail to permit self-servicing, if desired.

The operator should become familiar with the contents of this guide before operating the engine or carrying out maintenance procedures.

Power-driven equipment is only as safe as the person operating the controls. You are urged, as the operator of this diesel engine, to keep fingers and clothing away from the revolving belts, drive shafts, etc. on the engine installation.

Throughout this guide **CAUTIONS** regarding personal safety and **NOTICES** regarding engine perfor-

mance or service life will appear. To avoid personal injury and ensure long engine service life, always heed these instructions.

Whenever possible, it will benefit you to rely on an authorized Detroit Diesel service outlet for all your service needs from maintenance to major parts replacement. Authorized service outlets worldwide stock factory original parts and have the specialized equipment and experienced, trained personnel to provide prompt preventive maintenance and skilled engine repairs.

The information and specifications in this publication are based on the information in effect at the time of approval for printing. Contact an authorized Detroit Diesel service outlet for information on the latest revision. The right is reserved to make changes at any time without obligation.

WARRANTY

The applicable engine warranty is contained in the booklet entitled "Warranty Information for Series 60 Engines," available from authorized Detroit Diesel service outlets.

Keep this Operators Guide with the engine installation at all times. It contains important operating, maintenance, and safety instructions.

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ITEM		DAILY									
1—Lubricating Oil*		I									
2—Fuel Tank*		I									
3—Fuel Lines and Flexible Hoses*		I									
4—Cooling System*		I									
5—Turbocharger*		I									
ITEM 100 HOURS 3,000 MILES											
6—Battery*		I									
8—Drive Belts*		I									
ITEM 150 HOURS 4,500 MILES											
1—Lubricating Oil*		R									
7—Tachometer Drive*		I									
9—Air Compressor*		I									
10—Air Cleaner*		I									
11—Lubricating Oil Filter*		R									
12—Fuel Filters*		R									
ITEM 200 HOURS 6,000 MILES											
13—Coolant/Inhibitor Level*		I									
ITEM	HOURS MILES/KM (1000)	150 4.5/7.2	300 9.0/14.4	450 13.5/21.6	600 18/28.8	750 22.5/36	900 27/43.2	1050 31.5/50.4	1200 36/57.6	1350 40.5/64.8	1500 45/72
1—Lubricating Oil*		R	R	R	R	R	R	R	R	R	R
2—Fuel Tank*			I		I		I		I		I
4—Cooling System*					I				I		
7—Tachometer Drive*		I	I	I	I	I	I	I	I	I	I
9—Air Compressor*		I	I	I	I	I	I	I	I	I	I
11—Lubricating Oil Filter*		R	R	R	R	R	R	R	R	R	R
12—Fuel Filters*		R	R	R	R	R	R	R	R	R	R
13—Coolant Pump/Inhibitor Level*		I	I	I	I	I	I	I	I	I	I
14—Cranking Motor*		Follow Manufacturer's Recommendations									
15—Air System*		I	I	I	I	I	I	I	I	I	I
16—Exhaust System*		I	I	I	I	I	I	I	I	I	I
17—Engine (Steam Clean)*											
18—Radiator*			I		I		I		I		I
19—Oil Pressure*					I				I		
20—Battery Charging Alternator*			I		I		I		I		I
21—Engine & Transmission Mounts*					I				I		
22—Crankcase Pressure*					I				I		
23—Fan Hub*								I			
24—Thermostats & Seals*								I	I		
25—Crankcase Breather*								I	I		
26—Engine Tune-Up*											I
33—Vibration Damper*											

MAINTENANCE

SERVICE RECOMMENDATIONS

STATIONARY OR INDUSTRIAL ENGINES

CODES: I—Inspect, Service, Correct or Replace as Necessary
R—Replace
*See Item in Text

Table 4. Engine Maintenance—Stationary and Industrial Engines